Tomé wins Distinguished Scientist, Engineer Award

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Carlos Tomé of LANL's Materials Science in Radiation and Dynamics Extremes is the recipient of the 2013 Distinguished Scientist/Engineer Award presented by the Structural Materials Division of The Minerals, Metals & Materials Society (TMS). TMS recognized Tomé for his “long lasting contribution to the fundamental understanding of microstructure, properties and performance of structural materials for industrial applications.”

Research achievements

Tomé, who has a doctorate in physics from the National University of La Plata, Argentina, joined Los Alamos in 1996 and leads the Dynamic and Quasi-Static Loading Simulation and Modeling team. Tomé’s research includes pioneering the theoretical and numerical development of physically based modeling of mechanical behavior of polycrystals and defining the role played by texture and microstructure on the anisotropic properties of engineering materials. Such approaches have led to revolutionary changes in how simulations and interpretation of measurements on mechanical behavior are carried out. His theories, models and numerical codes are used by material scientists and engineers in academia, national labs and industry.

Tomé has published more than 100 papers in international journals, with more than 4,000 citations. Tomé co-authored the book, Texture and Anisotropy, with TMS Fellow Fred Kocks and Rudy Wenk. His work was the focus of a 2011 TMS symposium, the proceedings of which are compiled in a special issue of Modeling and Simulation in Materials Science and Engineering.

About The Minerals, Metals & Materials Society

Headquartered in the United States but international in both its membership and activities, TMS is a professional organization that encompasses the entire range of materials and engineering, from minerals processing and primary metals production to basic research and the advanced applications of materials. TMS has more than 10,000 members worldwide. The Structural Materials Division is focused on the science and engineering of load-bearing materials.